

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application.

## Listing of Claims:

1. (Currently Amended) A method of cellular labeling comprising the steps of:

- (a) exposing insoluble particles comprising at least one paramagnetic complex of lanthanide or transition metal chelates to cells, said particles being insoluble due to hydrophobic substituents bound to a surface of a chelating cage;
- (b) internalizing the insoluble particles inside the cells
- (c) degrading the insoluble particles by specific enzymes ~~or by effectors~~ in the environment surrounding the insoluble particles ~~to form water soluble positive MR imaging probes~~ so as to release single units of paramagnetic chelate and wherein a specific enzyme is selected from the group consisting of  $\beta$ -galactosidase, esterase, proteinase, enzymes and lipase.
- (d) recording MRI images of the cells by use of T1-weighted sequences.

2. (Cancelled)

3. (Previously Presented) The method of claim 1, wherein the hydrophobic substituents are aliphatic chains conjugated to the paramagnetic complex through an ester or amide bond.

4. (Cancelled)

5. (Cancelled)

6. (Previously Presented) The method of claim 1, wherein the paramagnetic complex comprises a Gd(III) chelate.

7. (Previously Presented) The method of claim 1, wherein the paramagnetic complex comprises a Mn(II) or a Mn(III) chelate.

8.-11.(Cancelled)

12. (Previously Presented) The method of claim 1, wherein the particles are covered by a dextran polymer or other suitable material which favors the formation of stable suspensions and which increases the lifetime of the particles in blood.

13. (Previously Presented) The method of claim 1, wherein the particles are functionalized with synthons able to target the particles to interact with specific recognition sites on the outer membrane of the cells of interest, thus stimulating cell-internalization.

14. (Previously Presented-Withdrawn) A method for the localization of atherosclerotic plaques comprising the method of claim 1:  
wherein cells having macrophagic activity are localized.

15. (Previously Presented-Withdrawn) A method for the detection of occurred transfection in gene therapy comprising the method of claim 1:  
wherein transfected cells are localized.

16. (New) A method of claim 1 wherein the cells are selected from the group consisting of tumour cells, stem cells, cells with macrophagic activity, macrophages, monocytes and neutrophils.